Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Identifying Chemical Reactions**

***Identify what type of reaction each of the following is – synthesis (S), decomposition (D), combustion (C), single-replacement (SR), or double-replacement (DR).***

* 1. \_\_\_\_\_\_2 KI + Cl2 🡪 2 KCl + I2
  2. \_\_\_\_\_\_2 ZnS + O2 🡪 2 ZnO + 2 S
  3. \_\_\_\_K2CO3 + CuSO4 🡪 CuCO3 + K2SO4
  4. \_\_\_\_\_\_H2O + SO3 🡪 H2SO4
  5. \_\_\_\_\_\_2 H2 + O2 🡪 2 H2O
  6. \_\_\_\_\_\_CaCO3 🡪 CaO + CO2
  7. \_\_\_\_\_\_Li2O + H2O 🡪 2 LiOH
  8. \_\_\_\_\_\_2 KClO3 🡪 2 KCl + 3 O2
  9. \_\_\_\_\_\_C3H8 + 5 O2 🡪 3 CO2 + 4 H2O
  10. \_\_\_\_\_\_CaO + H2O 🡪 Ca(OH)2
  11. \_\_\_\_\_\_Na2CO3 🡪 Na2O + CO2
  12. \_\_\_\_2 KOH + H2SO4 🡪 K2SO4 + 2 HOH
  13. \_\_\_\_\_\_2 KI + Cl2 🡪 2 KCl + I2
  14. \_\_\_2 NaCl + H2SO4 🡪 Na2SO4 + 2 HCl
  15. \_\_\_\_\_K2CO3 + BaCl2 🡪 2 KCl + BaCO3
  16. \_\_\_\_\_\_NH3 + HCl 🡪 NH4Cl
  17. \_\_\_\_\_\_AlCl3 + Na2SO4 🡪 Al2(SO4)3 + NaCl
  18. \_\_\_\_\_\_Al2S3 🡪 Al + S
  19. \_\_\_\_\_\_H2SO4 + Fe 🡪 H2 + FeSO4
  20. \_\_\_\_\_\_C12H22 + O2 🡪 CO2 + H2O
  21. \_\_\_\_NaOH + CuSO4 🡪 Na2SO4 + Cu(OH)2
  22. \_\_\_\_\_\_C4H12 + O2 🡪 H2O + CO2
  23. \_\_\_\_\_\_Fe + O2 🡪 Fe2O3
  24. \_\_\_\_\_\_ KBr + Cl2 🡪 KCl + Br2

**Balance two of the above equations in these boxes:**

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